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Class 235 REGISTERS

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1R MISCELLANEOUS

- [1A](#) . Shutters
- [1B](#) . Game counters
- [1C](#) . Numeral wheels
- [1D](#) . Casings
- [1E](#) . Toy cash registers
- [1F](#) . "Fugitive one" mechanism

2 CASH REGISTERS AND RECORDERS

- [3](#) . Check printing
- [4](#) **CASH RECORDERS**
 - . Manual
- [5](#)
- [7R](#) **CASH REGISTERS**
 - . Departmental
 - [8](#) . Key set
 - [9](#) .. Crank operated
 - [10](#) .. Drawer operated
 - [11](#) .. Motor operated
 - [12](#) .. Key operated
 - [13](#) .. Detail adders
 - [14](#) .. Differential mechanism
 - [15](#) ... Key coupled
 - [16](#) ... Lost-motion mechanism
 - [17](#) . Checks
 - [18](#) .. Balls
 - [19](#) . Dial
 - [20](#) .. Independent indicator
 - [21](#) .. Lever operated
 - [22](#) .. Drawer-operating mechanism
 - [23](#) .. Indicator mechanism
 - [24](#) .. Shutters
 - [25](#) .. Tablet droppers
 - [26](#) . Key arresters
 - [27](#) . Key locks
 - [28](#) . Lid registers
 - [7A](#) . Refund devices and coin change

33 FARE REGISTERS

- [29R](#) . Multiple
- [29A](#) .. Fare register seal
- [30R](#) .. Cab-fare indicating
- [30A](#) .. Meter preparation
- [31R](#) .. Ticket delivery
- [31T](#) .. Issue and print
- [32](#) . Registering boxes
- [34](#) . Dial and cylinder
- [35](#) . Belt
- [36](#) . Parallel axes
- [37](#) .. Cylinder

- 38 .. Dial and hand
- 39 .. Disk
- 40 . Single axis
- 41 .. Concentric disk
- 42 .. Cylinder
- 43 .. Dial and hand
- 44 . Operating devices
- 45 .. Electric
- 46 .. Punch
- 47 . Resetting
- 48 .. Direction indicator
- 49 . Hundreds indicator
- 51** **VOTING MACHINES**
- 50R . Recording
- 50A .. Recording and registering
- 50B .. Voting machines, recording
- 52 . Assembly
- 53 . Check operated
- 54R . Key set
- 54A .. Interlocks, voting machines
- 54B .. Endorsed candidate lockout
- 54C .. Primary voting mechanism
- 54D .. Cumulative interlocks for voting machines
- 54E .. Independent voting mechanism
- 54F .. Voting machines, electric
- 55R . Key operated
- 55A .. Interlocks; voting machine
- 55C .. Primary lockouts
- 55E .. Independent voting mechanism
- 56 . Vote counters
- 57** **REGISTERING BALLOT BOXES**
- 375** **SYSTEMS CONTROLLED BY DATA BEARING RECORDS**
- 376 . Operations analysis
- 377 . Time analysis
- 378 .. Price determination
- 379 .. Banking systems
- 380 . Credit or identification card systems
- 381 .. With vending
- 382 .. Permitting access
- 382.5 ... Changeable authorization
- 383 . Mechanized store
- 384 . Transportation
- 385 . Inventory
- 386 . Voting machine
- 400** **ORDNANCE OR WEAPON SYSTEMS COMPUTER**
- 401 . Bombing
- 402 .. Toss
- 403 . Torpedo director
- 404 . Aiming
- 405 .. Mechanical computation
- 406 ... With tabular chart, scale, or graph
- 407 .. Compensating for weapon movement (e.g., tilt)
- 408 . Projectile flight time - fuse setting
- 409 . Parallax compensation
- 410 . Coordinate conversion
- 411 . With target tracking means
- 412 .. Position or course prediction
- 413 .. Calculating speed and direction
- 414 . Range finder

415 .. With range rate change

416 .. Range prediction

417 . Ballistic factor determination

418 . Hand adjusted scale mechanism

419 RECORD CONTROLLED CALCULATORS

420 . Machine control

421 . Multiplying

422 . Dividing

423 . Subtraction

424 . Item distribution

425 . Sorting and accounting

426 . Relay- or contact-type storing or accumulating

427 . Differential mechanism, synchronous

428 . Differential mechanism, stop set

429 . Translators

430 . Key operators

431 . With data comparing

432 . With printing

433 .. With paper feeding

434 .. With punching

435 CODED RECORD SENSORS

436 . Readout control

437 . Error checking

438 . Testing

439 . Particular sensor structure

440 .. Multiple sensor

441 .. Electrical contact

442 ... Perforated

443 Static sensed

444 .. Electromechanical

445 ... Perforated record

446 Sensing element in continuous contact with record

447 Array

448 ... Raised or depressed portions on record

449 ... Magnetic

450 ... Strengthen or diminish field or flux

451 ... Capacitive

452 ... Pneumatic

453 ... Mechanical

454 ... Optical

455 ... Light level control

456 ... Multiple column code

457 ... Holographic

458 ... Perforated record

459 Stationary

460 Matrix of cells

461 One dimensional scan

462.01 ... Bar code

462.02 Bar code having a plurality of bars with different heights (e.g., Postnet)

462.03 Circular bar code (e.g., concentric circles or sun burst)

462.04 Bar code with bars of more than two colors (e.g., multicolored bar code, multilevel gray)

462.05 Means to read bar code on a transparent medium (e.g., film)

462.06 Light level adaptation

- 462.07 Means to decode multiple types or formats of bar code symbols (e.g., UPC, JAN, EAN, etc.)
- 462.08 Bar code location or selection
- 462.09 2-D bar code
 - 462.1 Means to decode a 2-D bar code
 - 462.11 Including an imager (e.g., CCD or camera-type reader)
- 462.12 Bar code stitching (e.g., forming a complete bar code from several partial scans)
- 462.13 Combined with diverse art device (e.g., security tag deactivator)
- 462.14 Stationary bar code reader
- 462.15 Programming or computer interface feature
- 462.16 Bar width determination
- 462.17 Using plural sensors
- 462.18 Using counter or timer
- 462.19 Including count or time to binary conversion (e.g., Wide=1, Narrow=0)
- 462.2 Aiming or positioning adjunct (e.g., viewfinder, pointer, or positioning aid)
- 462.21 Using spotter beam
 - 462.22 Extended reader working range (e.g., multiple focal planes)
- 462.23 Auto-focusing
- 462.24 Using an imager (e.g., CCD or camera-type reader)
- 462.25 Reader processing circuitry
 - 462.26 Amplitude control (e.g., automatic gain control)
 - 462.27 Analog to square wave converter (e.g., digitizer, binarizer, slicer)
 - 462.28 Clock generating or sampling circuit
 - 462.29 Noise reduction circuit (e.g., electrical filters)
- 462.3 Scanner power on/off
- 462.31 Including object detection
 - 462.32 Specific scanning detail (e.g., scanner with a specific scanning field of view)
 - 462.33 Moving a spot of light (e.g., flying spot scanner)
 - 462.34 Hologram
 - 462.35 Having a transmissive optical element (e.g., lens, prism, or aperture)
 - 462.36 Using a moving mirror
 - 462.37 Pattern mirror detail for nonrotating mirror

- 462.38 Rotating
- 462.39 Polygon
- 462.4 Pattern mirror detail for rotating mirror
- 462.41 Using an imager (e.g., CCD)
- 462.42 Illumination detail (e.g., LED array)
- 462.43 Specified housing or mounting detail
- 462.44 Body attached
- 462.45 Hand-held (e.g., portable)
- 462.46 Wireless link (e.g., RF, IR, etc.)
- 462.47 Interchangeable scanning head or detachable handle
- 462.48 Trigger detail
- 462.49 Wand-type reader (e.g., manual scan)
- 468 ... Invisible
- 469 ... Color coded
- 470 ... With scanning of record
- 471 Cathode-ray tube
- 472.01 ... Hand-held (e.g., portable)
- 472.02 Wireless link (e.g., RF, IR, etc.)
- 472.03 Wand-type reader (e.g., manual scan)
- 473 ... Light pipes
- 474 . Synchronization
- 475 . Feed mechanisms
- 476 .. Control circuits
- 477 ... Direction
- 478 .. Pneumatic feed
- 479 .. Carriage
- 480 .. Direction reverse
- 481 .. Intermittent feed
- 482 . Hand feed
- 483 . Guides
- 484 .. Adjustable
- 485 .. Aligning records
- 486 . Holding devices
- 487** **RECORDS**
- 488 . Laminated
- 489 . Perforated
- 490 . Projections
- 491 . Fluorescent, phosphorescent, radiation emitting
- 492 . Conductive
- 493 . Magnetic
- 494 . Particular code pattern
- 495 . Templates and guides
- 61R** **CALCULATORS**
- 58R . Recording
- 59R .. Key operated

- 59A ... Miscellaneous key operated recording
- 59BC ... Multiplying unitary base
- 59BD ... Wahl type
- 59BE ... Flat bed
- 59BF ... Attachment for typewriters
- 59CP ... Clear sign printing
- 59BG ... Power operated
- 59TP ... Total printing
- 59T ... Typewriter
- 59BH ... Addendoraphs
- 60R ... Key set
- 60.11 ... By means other than printing or punching
- 60.12 ... Combined with typewriter
- 60.13 ... Multiple recording means
- 60.19 ... Distinctive color
- 60.15 ... Non-numerical data
- 60.16 Alphabetical
- 60.17 Clearance symbol
- 60.18 Function indicating character or symbol
- 60.2 ... True negative total recording
- 60.22 Electric readout
- 60.23 ... With split printing
- 60.24 ... With extended totals
- 60.25 ... Non-recording controls
- 60.26 ... Non-add controls
- 60.27 ... Gang recording
- 60.28 With zero recording controls
- 60.29 By punching
- 60.3 With total taking
- 60.31 By zeroizing result elements
- 60.32 With blank cycle elimination
- 60.33 By sensing result elements
- 60.34 Combined with zeroizing
- 60.35 By differential timing
- 60.37 By direct impression from result elements
- 60.38 ... Digit by digit recording
- 60.39 With total taking
- 60.4 Electrical
- 60.41 ... With traveling paper carriage
- 60.42 Control of carriage feed
- 60.44 Shuttle type operation
- 60.45 Power operation
- 60.46 Columnar
- 60.47 Control of function by carriage
- 60.48 Totalizer selection
- 60.49 Locking devices
- 60.5 Carriage bore function control structures
- 60.51 Control of platen or paper feed
- 60.52 Control of functions from platen or paper feed
- 60D ... Dalton
- 60E ... Ellis
- 60G ... Gardner
- 60HP ... Hopkin
- 60MT ... Multiple totalizers
- 60M ... Multiplying
- 60PY ... Pay roll
- 60S ... Split
- 60SS ... Sundstrand
- 60TK ... Ten key

<u>60C</u>	... Item counting
<u>60TN</u>	... True negative
<u>60HN</u>	... Hanson
<u>60P</u>	... Print
<u>60AP</u>	... Automatic total print
<u>60TW</u>	... Typewriter
<u>60B</u>	... Burroughs
<u>60CK</u>	... Crank
<u>58M</u>	.. Miscellaneous
<u>58CW</u>	.. Check writers and markers
<u>58CF</u>	.. Paper and carriage feed
<u>58PS</u>	.. Price scales
<u>58P</u>	.. Print
<u>200R</u>	. Including means utilizing fluid, e.g., fluid amplifiers
<u>201R</u>	.. Digital pulse
<u>201ME</u>	... Moving elements
<u>201FS</u>	... Fluid sensor
<u>201PF</u>	... Pure fluid
<u>200PF</u>	.. Analog pure fluid
<u>200WB</u>	.. Weigh beam
<u>62R</u>	. Motor actuated
<u>62A</u>	.. Key set
<u>62B</u>	.. Key operated
<u>62C</u>	.. Wright - Degene (underwood) type
<u>62D</u>	.. Calculators, motor actuated
<u>62E</u>	.. Calculators, motor actuated, Elliot Fischer type
<u>62F</u>	.. Motor circuit and clutch control (mult. and div. control)
<u>63R</u>	. Traveling carriage
<u>63A</u>	.. Manually operated
<u>63B</u>	.. Machines with ten keys or less
<u>63C</u>	.. With master wheels
<u>63D</u>	.. Power operated
<u>63E</u>	.. Auto-control incident to multiplying and dividing
<u>63F</u>	.. Auto-control incident to dividing
<u>63G</u>	.. Divided - divisor aligning mechanism
<u>63H</u>	.. Automatic multiplication
<u>63J</u>	.. Both factors preset in full
<u>63K</u>	.. One factor only preset in full
<u>63L</u>	.. Miscellaneous
<u>63KP</u>	.. Key operated
<u>63KS</u>	.. Key set
<u>63DE</u>	.. Decimal elimination
<u>64</u>	. Adding pencils
<u>64.3</u>	. Decimal point locators
<u>64.7</u>	. Photographic
<u>65</u>	. Bar and disk
<u>66</u>	. Cylinder and disk
<u>67</u>	. Spiral
<u>68</u>	. Ball
<u>69</u>	. Bar
<u>70R</u>	.. Slide rules
<u>70A</u>	... Special use slide rule
<u>70B</u>	... Runners, cursors

- 70C ... Scales
- 70D ... Slide rule pencils
- 71R . Belt
- 71A .. Slide rule tape
- 72 . Parallel axes
- 73 .. Cylinder
- 74 .. Disk
- 75R ... Key operated
- 75T Thomas-type machines
- 76 .. Gear
- 77 . Single axis
- 78R .. Concentric disk
- 78A ... Adders
- 78F ... Financial
- 78G ... Games
- 78M ... Mathematics
- 78N ... Navigation
- 78RC ... Rhythm calculators
- 79 .. Cylinder
- 79.5 ... Slide rules
- 80 ... Keyless
- 81R Lever operated
- 81A Odner type
- 82R ... Key operated
- 82C Comptometer
- 82FK Five key
- 82TK Ten key
- 82MK More than ten keys
- 82SK Single key operated multiplying
- 82K Key set
- 83 .. Disk; dial and hand
- 84 ... Slide rules
- 85R . Tabular
- 86 .. Belt
- 87R .. Cylinder
- 87A ... Computing and weighing scales
- 88R .. Disk
- 88F ... Financial
- 88G ... Games
- 88M ... Mathematics
- 88N ... Navigation
- 88RC ... Rhythm calculators
- 89R .. Sheet
- 89A ... Computing and weighing scales
- 85FC .. Rhythm cycle (fertility)
- 61A . Miscellaneous
- 61B . Tabular
- 61C . Integrating
- 61D . Chart integrators
- 61DP . Decimal point indicators
- 61E . Mean or average computers
- 61F . Multiplying machine - miscellaneous
- 61FA . Precomputed products
- 61FB . Variator with counter
- 61FC . Variator with accumulator
- 61FD . Partial products
- 61FE . Successive addition
- 61G . Odds computers
- 61GM . Geometrical

- 61J . Miles per gallon
- 61K . Partial product wherein result is obtained in (one) summation
- 61P . Polynominal
- 61L . Variators - change speed gear devices
- 61M . Volume and price computers
- 61NV . Navigational
- 61PS . Computing scales
- 61PA . Mechanical input-output
- 61PB . Input-output with storage
- 61PC . Input-output from racks to computer
- 61PD . Input-output from register to computer
- 61PE . Input-output from keyboard to computer
- 61PF . Input-output from typewriter to computer
- 61PG . Electrical from computer to adding machine
- 61PH . Input-output electrical from calculator to typewriter
- 61PJ . Input-output electrical from computer to card or tape
- 61PK . Input-output calculator to indicator, printer, etc.
- 61PL . Storage medium conversion
- 61PM . Interconnection, sequencing and programming
- 61S . Transportation
- 61T . Transportation balance computers
- 61V . Transportation time-distance schedules

90 PEG TALLY BOARDS

102 TYPEWRITER WORD COUNTERS

94R LIQUID REGISTERS

- 94A . Volume and price

98R PACKAGE OPERATED

- 98A . Reactive package
- 98B . Package operated switch
- 98C . Interrupted radiant energy ray

100 REGISTERING BOXES

99R PLATFORM OPERATED

- 99A . Platform actuated traffic counters

101 STAMP

93 GATE AND TURNSTILE OPERATED

95R ODOMETERS

- 96 . Details
- 97 . Trip and total
- 95A . Excess speed
- 95B . Hub
- 95C . Odometers, pendulum type

103 ROTATION COUNTERS

- 103.5R . Comparing
- 103.5E .. Extensometers

- 104 . Timing devices

105 PEDOMETERS

123 BALL BUTTON OR PUSH BUTTON INDICATOR

124 BAR AND SCALE

125 BELT

127 PIVOTED INDICATOR

106 ANGLED AXES

107 SPIRAL

108 PARALLEL AXES

- 109 . Gear
- 110 . Cylinder
- 111 . Dial and disk
- 112 . Dial and hand

- 113 . Disk
- 114 .. Hand operated
- 115 SINGLE AXIS**
- 116 . Concentric disk
- 117R . Cylinder
- 118 .. Single cylinder
- 117A .. Manually operated
- 119 . Differential gears
- . Dial and hand
- 120 .. Multiple hand
- 121 .. Single hand
- . Disk
- 91R OPERATING DEVICES**
- 91PR . Plural registers
- 91A . Double acting pawl escapement with double arm pawl
- 91B . Billiards and pool
- 91C . Photograph
- 91D . Time interval totals
- 91E . Telephone
- 91F . Pressure and vacuum
- 91G . Summation
- 91H . Inertia, speed and distance indicator
- 91J . Register key
- 91K . Register ball actuated
- 91L . Mechanical store
- 91M . Magnetic
- 128 ALARM MECHANISM**
- 130R LOCKING MECHANISM**
- 130KD . Incomplete key depression
- 130TC . Typewriter computing
- 131R OVERTHROW PREVENTERS**
- 131FD . Frictional detent
- 131M . Miscellaneous
- 131JA . Jamming action
- 132R WITH CONTROL MEANS OPERABLE ON PREDETERMINED REGISTER READING**
- 132A . Predetermined count, self-resetting
- 132E . Electrical
- 133R TRANSFER MECHANISM**
- 134 . Cam and lever
- 135 . Deep notch
- 136 . Differential gears
- 137 . Independent actuator
- .. Successive
- 138 . Intermediate pinion
- 139R .. Internal pinion
- 139A . Side tooth
- 140 .. Lock
- 141 . Traveling pawl
- .. Side action
- 142 . Electrical
- 133A ZERO-SETTING DEVICES**
- 144R . Disconnected member
- 144DM . Miscellaneous
- 144M . Miscellaneous

- 144PN . Pawl and notch
- 144ME . Magnetic, electromagnetic, and electric motor reset
- 144C . Complement
- 144HC . Heart cam
- 144D . Dispensing
- 144S . Shaft set, miscellaneous
- 144SS . Separate shaft
- 144SM . Shaft movable
- 144SP . Spring
- 144MG . Mutilated gear
- 144TP . Traveling pawl
- 144ET . Elapsed time registering
- 144MA . Maximum demand
- 144B . Rake reset
- 144EA . External mechanism only with or without drive disconnect
- 144E . Electrical
- 144TB . Total printing

145R KEYBOARDS

- 146 . Auxiliary
- 145A . With total transfer to keyboard or the like

CROSS-REFERENCE ART COLLECTIONS

- 900 **MEANS TO AFFIX BAR CODE (E.G., ATTACHING, ETCHING, COATING, PRINTING, ETC.)**
- 901 **BAR CODE READER SPECIALIZED TO READ CODE ON A HIGHLY REFLECTIVE SURFACE**

FOREIGN ART COLLECTIONS

FOR000 CLASS-RELATED FOREIGN DOCUMENTS

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

- CODED RECORD SENSORS (235/435)**
 - . Particular sensor structure (235/439)
 - .. Optical (235/454)
 - FOR100 ... Bar code (235/462)
 - FOR101 Bar with detection (235/463)
 - FOR102 Radially configured (235/464)

- FOR103 Color (235/465)
- FOR104 Timing (235/466)
- FOR105 Rotating prisms or mirrors (235/467)

CODED RECORD SENSORS (235/435)

- . Particular sensor structure (235/439)
- .. Optical (235/454)

- FOR106 ... Hand held (235/472)

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